CLAIMS:

1. A blood mixer (10) comprising:

a support structure (11) supporting the components of the mixer (10)

a tray (18) adapted to house a blood collecting bag having a blood tube (14) attached thereto, and configured to measure the weight of the collected blood in the blood collecting bag (16), and

further comprising a mechanism for causing a repeated tilting of at least the tray (18) in at least one direction

wherein

a pump (20) is provided on the support structure and configured to draw blood from the donor to a blood collecting bag through said blood tube (14), and in that

the pump (20) is configured to exert a kneading action on the blood tube (14) by means of at least two kneading elements arranged to alternatingly displace the contents of the tube in the direction towards the bag, over one segment of the tube each, thereby preventing back flow inside the tube and enabling an elevation of the blood mixer higher than the position of the donor, in that

the mixer further comprises a sensor unit which comprises a hemoglobin meter, said hemoglobin meter configured to continuously measure the hemoglobin value of the blood flowing in a tubing secured to the mixer, and in that

information recorded by the sensors is stored in a suitable format, preferably as text files.

2. The blood mixer according to claim 1, wherein the sensor unit comprises a flow detector configured to measure flow rate and flow direction of the blood flowing in said tubing.

3. The blood mixer according to claim 2, further comprising a regulator configured to regulate the flow of blood to the collecting bag (16) in response to data from the flow detector.

4. The blood mixer according to claim 1, further comprising a wireless communication device (23) configured to exchange information with a welder (24) and/or a computer (25).

5. The blood mixer according to any preceding claim, further comprising a cooling arrangement (19) configured to cool blood in the blood collecting bag (16).

6. The blood mixer according to any preceding claim, further comprising a tubing fastening and guiding arrangement (13; 20), configured to secure a blood collecting tubing (14) on the mixer (10).